Attachment #150

Pond Elevation, feet below top of pond	Pond Area at Elevation (acres)	Volume of Pond Available for Storage (acre-ft)	Annual Evaporation Capacity at Elevation (acre-ft)	Water from Brine Input Annually (acre-ft)	Annual Precipitation, 4"/yr, (acre-ft)	Solids to Pond Annually (acre-ft)	Total Annual Input (acre-ft)	Excess Volume (Input minus Evaporation) (acre-ft)	Available Volume minus Excess Volume (acre-ft)
-15	1.76	33.26	10.55	28.17	1.20	3.37	32.74	22.19	11.07
-14	1.84	31.28	11.07	28.17	1.20	3.37	32.74	21.67	9.61
-13	1.93	29.21	11.60	28.17	1.20	3.37	32.74	21.15	8.06
-12	2.02	27.05	12.13	28.17	1.20	3.37	32.74	20.61	6.44
-11	2.11	24.80	12.68	28.17	1.20	3.37	32.74	20.06	4.74
-10	2.21	22.45	13.24	28.17	1.20	3.37	32.74	19.50	2.95
-9	2.30	20.00	13.81	28.17	1.20	3.37	32.74	18.93	1.07
-8	2.40	17.46	14.39	28.17	1.20	3.37	32.74	18.35	-0.89
-7	2.50	14.81	14.99	28.17	1.20	3.37	32.74	17.76	-2.95
-6	2.60	12.06	15.59	28.17	1.20	3.37	32.74	17.15	-5.09
-5	2.70	9.20	16.20	28.17	1.20	3.37	32.74	16.54	-7.34
-4	2.80	6.24	16.83	28.17	1.20	3.37	32.74	15.91	-9.67
-3	2.91	3.17	17.46	28.17	1.20	3.37	32.74	15.28	-12.11
-2	3.02	0.00	18.10	28.17	1.20	3.37	32.74	14.64	-14.64
-1	3.12	0.00							
0	3.22	NA							

The "Available Volume minus Excess Volume" must be positive for Evaporation Pond #2 to be able to accommodate all of the wastewater flow for one year. The "Available Volume minus Excess Volume" becomes negative at -8.65' below the top of the pond. That is, the pond can be no more than 15-8.65 = 6.35' above the bottom of the pond and still accommodate all of the annual input without going above the

* Average annual precipitation of 6 inches per year is used for this calculation instead of the extreme precipitation event.
* Area which collects rain water is the area within the access road that circles the top evaporation pond No. 2, 3.57 acres.
* Volume of waste to pond is the same as in the response to Data Request 59. Water to the pond is 28.17 acre-ft annually from Step 2 and solids are 3.37 acre-ft annually (146,799 ft^3/yr) from Step 5.
* Pond stage areas are tabulated in the response to Data Request 149.
* Annual evaporation capacity is based on 6 feet of evaporation.